



483377



**POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT**

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

MI DEC5359130

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) <i>Total Petroleum Alma Refining Co. Superior St.</i>		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER			
03 CITY <i>Alma</i>	04 STATE <i>MI</i>	05 ZIP CODE <i>48804</i>	06 COUNTY <i>Gratiot</i>	07 COUNTY CODE <i>057</i>	08 CONG DIST <i>10</i>
09 COORDINATES LATITUDE <i>43°22'45.0"</i> LONGITUDE <i>-84°39'00.0"</i>		<i>Alma North Quad (7.5) 1973</i>			
10 DIRECTIONS TO SITE (Starting from nearest public road) <i>US 27 to BR 27; BR 27 2 mi to Beggs Rd., north on Beggs Rd 200' to Michigan Ave, N on Michigan Ave 1/2 mi to Superior St. East on Superior St.</i>					

III. RESPONSIBLE PARTIES

01 OWNER (if known) <i>Total Petroleum Inc.</i>		02 STREET (Business, mailing, residential)			
03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER ()		
07 OPERATOR (if known and different from owner)		08 STREET (Business, mailing, residential)			
09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER ()		
13 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL: _____ (Agency name) <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER: _____ (Specify) <input type="checkbox"/> G. UNKNOWN					
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply) <input type="checkbox"/> A. RCRA 3001 DATE RECEIVED: _____ MONTH DAY YEAR <input type="checkbox"/> B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: _____ MONTH DAY YEAR <input type="checkbox"/> C. NONE					

IV. CHARACTERIZATION OF POTENTIAL HAZARD

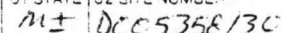
01 ON SITE INSPECTION <input checked="" type="checkbox"/> YES DATE <i>12/7/84</i> MONTH DAY YEAR <input type="checkbox"/> NO		BY (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input checked="" type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: _____ (Specify)			
02 SITE STATUS (Check one) <input checked="" type="checkbox"/> A. ACTIVE <input type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN		03 YEARS OF OPERATION <i>unknown</i> BEGINNING YEAR ENDING YEAR <input type="checkbox"/> UNKNOWN			
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED <i>aromatic hydrocarbons, halocarbons, phenols and semi-volatile compounds</i>					
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION <i>groundwater (population, environment) soils (pop., environment)</i>					

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents) <input checked="" type="checkbox"/> A. HIGH (Inspection required promptly) <input type="checkbox"/> B. MEDIUM (Inspection required) <input type="checkbox"/> C. LOW (Inspect on time available basis) <input type="checkbox"/> D. NONE (No further action needed, complete current disposition form)			
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VI. INFORMATION AVAILABLE FROM

01 CONTACT <i>Don Cummins</i>	02 OF (Agency/Organization) <i>MDNR GWD personnel</i>		03 TELEPHONE NUMBER <i>517 322-1300</i>	
04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER ()	08 DATE _____/_____/_____ MONTH DAY YEAR





POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE: Ala 02 SITE NUMBER: D005358130

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: 17,773

02 ☒ OBSERVED (DATE: 10/84)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

- groundwater flow to NE; documented contamination with methane, chlorides and petroleum constituents. See Hazardous Substance IV

01 ☒ B. SURFACE WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: 17,773

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

- potential impact upon the Pine River flowing approx. 1/4 mi to the NE, downstream of groundwater flow; surface is trapped by levees and a collection ditch

01 ☐ C. CONTAMINATION OF AIR

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

N/A

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

N/A

01 ☐ E. DIRECT CONTACT

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

The site is completely fenced

N/A

01 ☒ F. CONTAMINATION OF SOIL

03 AREA POTENTIALLY AFFECTED: 6400 sq ft

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

potential for soils to be contaminated with non-biodegradable wastes at land treatment facility.

01 ☐ G. DRINKING WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

- This area is served by Abbeville municipal water supply. - taking water from the Pine River upstream from the site. no residential wells are known to exist in the direction of groundwater flow; St Louis is a groundwater using municipality

01 ☐ H. WORKER EXPOSURE/INJURY

03 WORKERS POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

N/A

01 ☐ I. POPULATION EXPOSURE/INJURY

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

N/A



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NY DCCB358130

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

N/A

01 ☐ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (include name(s) of species)

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

N/A

01 ☐ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

N/A

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES
(Spills/runoff/standing liquids/leaking drums)

02 ☒ OBSERVED (DATE: 10/84)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 17,773

04 NARRATIVE DESCRIPTION

Groundwater has been impacted; potential for soil contamination associated with land application and/or old pet chemical waste disposal.

01 ☒ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

potential for groundwater migration off site and damaging offsite properties groundwater - lateral extent of groundwater plume is unknown at this time.

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

N/A

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

N/A

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: 17,773

IV. COMMENTS

Population figures taken from calculations of nearby Aluma Products.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

MDNR Groundwater Quality Div. File; MDNR Lansing Dist. Groundwater Quality Personnel

RCRA
Ken
T&D
TRS
UIC

SD 8/108

OK Stone
10-29-85

10/7/85 OK H
10-9-85

SITE DESCRIPTION/EXECUTIVE SUMMARY

Site Name and Location

Total Petroleum Alma
E. Superior St.
Alma, MI 48801

County: Gratiot
Michigan Code Number: 29-11N-03W-02A
DNR District: Lansing
EPA ID Number: MID005358130

Screen No.: 08

This is a petroleum refinery that has disposed of separator tank sludges and manufacturing wastes from this and another operation in Mt. Pleasant at this site via land application. As a result, the groundwater has been degraded in the area of the landfarming operation and is migrating in a northeasterly direction. Methylene chloride has been found in monitor wells at levels as high as 800 mg/l.

Current efforts by Total Petroleum and their consultants, FTC&H, include plans to capture and treat degraded groundwater by slurry walls, purge wells, or the operation of an under drain system. After increases in indicator parameters in 1983 additional groundwaters sampling was undertaken in 1984 and napthenic and thiophenic compounds, constituents of fresh petroleum, were confirmed in the groundwater. ?

Recommendation to the EPA

A high priority for inspection is recommended. Additional soil and groundwater sampling depicting levels of specific organic contaminants is required to more accurately assess site conditions. The Pine River runs approximately ¼ mile to the NE in the direction of groundwater flow, possible surface water impacts should be investigated. MDNR Groundwater Quality files and the above information should be sufficient for HRS scoring.

Date of Previous Summary: 11/27/84
Previous Author: B. Grabowski

Current Date: 9/19/85
Author: Chris Grobbel

Site Assessment Unit
Groundwater Quality Division
Michigan Dept. of Natural Resources